



# Advanced Wireless Communications and Internet: Future Evolving Technologies

*Savo G. Glisic*

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**Advanced Wireless Communications and Internet: Future Evolving Technologies** Savo G. Glisic  
**The new edition of *Advanced Wireless Communications: 4G Cognitive and Cooperative Broadband Technology, 2nd Edition*, including the latest developments**

In the evolution of wireless communications, the dominant challenges are in the areas of networking and their integration with the Future Internet. Even the classical concept of cellular networks is changing and new technologies are evolving to replace it. To reflect these new trends, *Advanced Wireless Communications & INTERNET* builds upon the previous volumes, enhancing the existing chapters, and including a number of new topics. Systematically guiding readers from the fundamentals through to advanced areas, each chapter begins with an introductory explanation of the basic problems and solutions followed with an analytical treatment in greater detail.

The most important aspects of new emerging technologies in wireless communications are comprehensively covered including: next generation Internet; cloud computing and network virtualization; economics of utility computing and wireless grids and clouds. This gives readers an essential understanding of the overall environment in which future wireless networks will be operating. Furthermore, a number of methodologies for maintaining the network connectivity, by using tools ranging from genetic algorithms to stochastic geometry and random graphs theory, and a discussion on percolation and connectivity, are also offered. The book includes a chapter on network formation games, covering the general models, knowledge based network formation games, and coalition games in wireless ad hoc networks.

- Illustrates points throughout using real-life case studies drawn from the author's extensive international experience in the field of telecommunications
- Fully updated to include the latest developments, key topics covered include: Advanced routing and network coding; Network stability control; Relay-assisted Wireless Networks; Multicommodity flow optimization problems, flow optimization in heterogeneous networks, and dynamic resource allocation in computing clouds
- Methodically guides readers through each topic from basic to advanced areas
- Focuses on system elements that provide adaptability and re-configurability, and discusses how these features can improve wireless communications system performance

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